

**DEPARTMENT OF TRANSPORTATION****DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch  
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:**Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-001437**Date Inspected:** 17-May-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 1900**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 700**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**Location:** Changxing Dao, Shanghai**Quality Control Contact:** William (Bill) Oak**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coatings Inspection**Bridge No:** 34-0006**Component:** OBG 1AE,OBG 5BE,OBG 4AE/4BE Weld S**Bid Item:** 77, 78, 79**Lot No:** B265**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. James Lumley arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

**OBG 1AE**

Base metal interior surfaces of the "U" rib stiffeners and vertical surfaces of the diaphragms and floor beams were abrasive blasted to an SSPC SP-10 condition after grinding operations were performed on deficient areas and Interzinc 22 applied.

**East Tower Lift #1**

Interior surfaces of base metal was abrasive blasted for VT and grinding operations and not coated at this time.

**Vial Test**

Abrasive sample was obtained and checked for oil, no oil was observed.

**Cross Beam #1**

Adhesion testing was performed and the following values observed 1) 8.63Mpa 2) 9.41Mpa on external surfaces coated with Interzinc 22.

**OBG 5BE**

Adhesion testing was performed on external surfaces coated with Interzinc 22 and the following values observed

1) 6.97Mpa 2) 10.11Mpa 3) 7.34Mpa 4) 10.05Mpa 5) 12.71Mpa 6) 12.45Mpa.

**OBG 4AW/4BW Weld Seam**

Weld seams and adjacent damaged areas were abrasive blasted to an SSPC SP-10 condition and Interzinc 22 applied to base metal surfaces. Application began after third inspection.

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## SOURCE INSPECTION REPORT

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### Miscellaneous Metal

Approximately 500 assorted splice plates angle iron and cable support assemblies and traveler rail brackets were de-greased and water washed prior to abrasive blasting of base metal surfaces.

### Lift #1 East Tower

Re-check grinding operations interior surfaces incomplete re-blasting also required.

Note: All inspections were performed jointly with ZPMC & ABF QA/QC representatives and Caltrans QA

Lumley also in attendance was International protective Coatings technical service representative Mr.Peng ZiLi and Alpha Chen.

### Summary of Conversations:

No relevant conversations on this date.

### Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang. (\*58) 699-9549, who represents the Office of Structural Materials for your project.

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<b>Inspected By:</b>	Lumley,James	Quality Assurance Inspector
<b>Reviewed By:</b>	Carreon,Albert	QA Reviewer

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